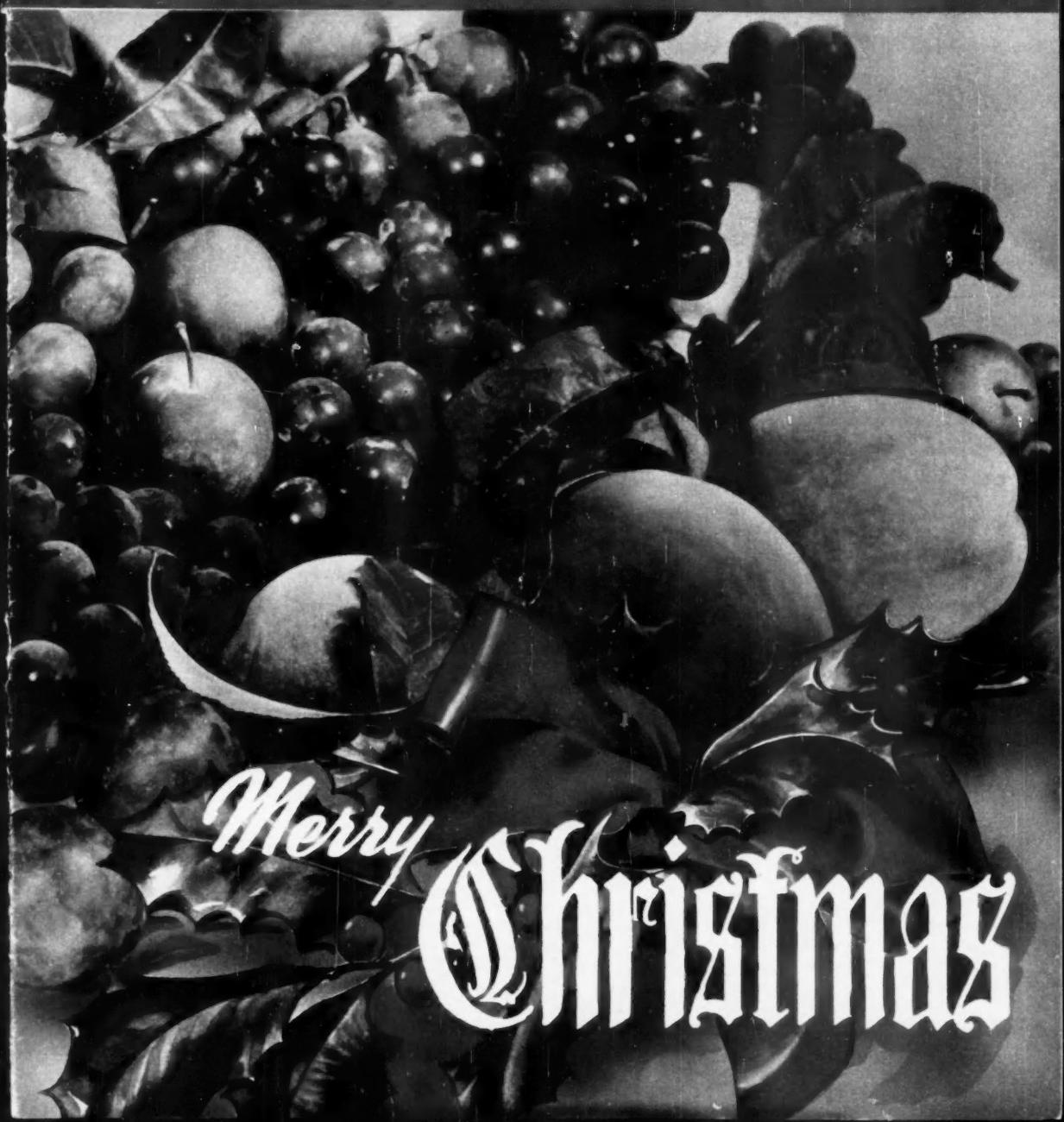


American Fruit Grower

DECEMBER • 1952



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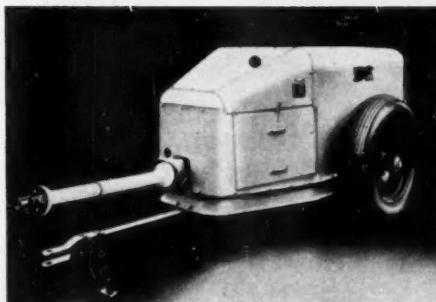
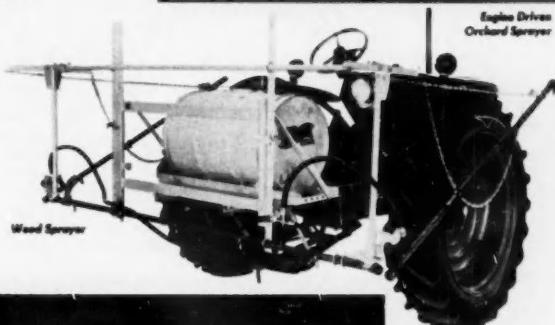
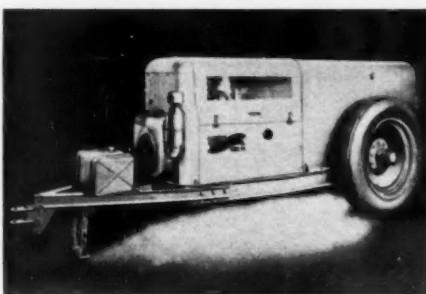
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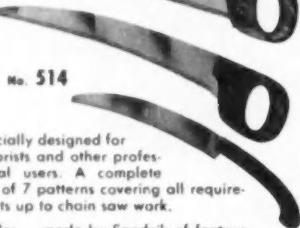
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LETTERS TO THE EDITOR

The Lychee

Dear Editor:

The article, "Behold! The Lychee," which appeared in a recent issue of AMERICAN FRUIT GROWER, is in my opinion the finest story yet published about our friend, the late Col. Grove, and his work with the lychee. My only regret is that he is not here to enjoy this story, as he had looked forward to reading it in your magazine.

Mr. Ranta can be commended for giving a clear and completely accurate account of operations here at the orchards. His compilation of material gathered while here on a few hours' visit is most remarkable.

Laurel, Fla. Mrs. W. J. Summers

wood. Only recently have paper wraps been available.

As with you, all our costs have risen two and three-fold, but improvements in technique, pest control, and the wide use of machinery help keep the cost of production low enough to enable us to sell our fruit at a profit.

England has planted three and one-half million dessert apples and pears since the last war. We are keenly interested in your research work and developments, but unfortunately not much of it is applicable to our conditions. Nevertheless, much can be learned from all fruit growing countries and the pooling of knowledge benefits all. Chelmsford, England W. P. Seabrook

Strange as it Seems!

Dear Editor:

Two years ago a neighbor asked me to change a Kieffer pear tree to a Bartlett. The interesting result was that the fruit on the Bartlett grafts did not retain the true Bartlett characteristics, having developed some of the Kieffer traits. I believe the understock has some governing factor over the quality of fruit produced on the scion or bud and these factors are transmitted from stock to scion or bud through the cells by way of the sap.

Cainsville, Canada John F. Hess

Undoubtedly the stock does have an effect on the scion and vice versa. However, this effect is not genetic and is not reproducible. —Ed.

The Human Equation

Dear Editor:

I would like to comment on Ralph A. Strong's letter in the October issue on the article "Good Housing Pays Off." In addition to a good house you need a wheel chair and someone to work for the help so they don't need to spend any effort on the job. Comparing the housing of labor to the housing of machinery, I have never seen a machine rear up on its hind legs and insist that money was more important than privileges. Nor have I ever seen a machine drunk. Nor does the machine have a zeal to get money just for the thrill of letting it run through its fingers. Nor does it prefer a poor shelter to a chunk of paper money to use on a jockey or TV.

Downtown, Pa. John W. Hershey

Fruit Growing In England

Dear Sir:

I know that our system of growing apples and pears commercially will never become a practice in America primarily because our respective climates are so very different.

Here in England we have little winter-killing, codling moth, San Jose scale, fire blight, or irrigation problems. European red mite and scale are our most persistent troubles and lime sulphur controls both. Pest and disease control cost us from \$16 to \$28 per acre.

Our packing sheds and cold storages are similar to yours but on a much smaller scale. We have had John Bean Cutters since 1921, but unfortunately no modern models. Our newest is 20 years old and still going strong but noisy!

Unfortunately, our government will not let us import box stocks from Baltic countries and we have to use secondhand boxes from America or the Continent or use returnable boxes made of English hard-

Malling Stock Correction

Dear Editor:

In the October issue of AMERICAN FRUIT GROWER there appears to be a mistake in the caption for one of the photographs appearing in the article by H. B. Tukey.

The caption "Semi-dwarf Cortland on Malling IX is a possibility for commercial orchards," should read differently inasmuch as Malling IX produces a full dwarf tree. I suspect that Malling XIII is the correct caption, although we have not found Malling XIII to be any more than slightly dwarfing. Amherst, Mass. W. D. Weeks

Our thanks to reader Weeks for bringing this to our attention. He is correct in assuming the caption should have read Malling XIII which produces a larger tree than the full-dwarfing Malling IX stock.—Ed.

New DODGE "Job-Rated" TRUCKS

offer big savings for farmers!



NEW! MORE POWERFUL ENGINES!

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DECEMBER, 1952



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A good fruit harvest starts long before the first leaves appear on the trees. It is never too early to start planning a good spraying program—a program to assure you of the best possible crop.

Orchardists planning their spraying programs will find in the complete Dow line the all-season protection they need. Dow's tested insecticides and fungicides are designed to work well together. Each one does its job with minimum labor and

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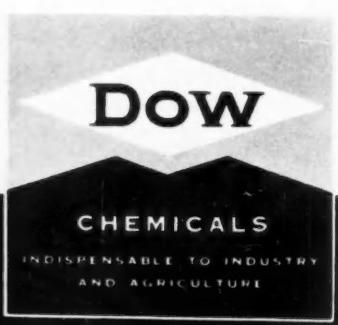
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It pays to lead off with DN-289, Dow's NON-OIL dormant spray material for apples, pears, cherries, plums and pecans. Easy to mix, completely water-soluble—DN-289 controls bud moth, aphis including rosy apple aphid, scale insects, cherry case bearer, pear psylla, pecan nut case bearer and Phylloxera aphid and assists in reducing red mite population.

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AMERICAN FRUIT GROWER



A perplexing question: Where to make the next cut.

PLAN YOUR PRUNING

Good pruning is the hub of the successful orchard program
and must not be neglected for quality apple production

By FREEMAN S. HOWLETT
Ohio Experiment Station

HERE is no dormant season for the fruit grower—the end of harvest runs abruptly into the beginning of pruning. A certain apathy is not unnatural when it comes to starting the pruning job all over again. Or, feeling that the job must be done, the grower may go out without any definite plan and start pruning almost automatically, keeping at it off and on without necessarily finishing the job. For a practice as basic as pruning, anything but a well-planned, carefully-executed program is too haphazard.

The objective of the fruit growing industry is not maximum tonnage but the production of the largest proportion of fruits of the size, color, and quality demanded by the market. For such a program to be successful pruning is indispensable. In fact, next to insect and disease control, no other orchard operation is so essential.

Present practices in the apple orchard seem to increase the importance of the pruning operation. Thinning—that other means to quality production—has reached an interim phase. Reliance on hand thinning is no longer financially feasible, and chemical thinning is still in its infancy. Thus the

emphasis necessarily shifts to pruning.

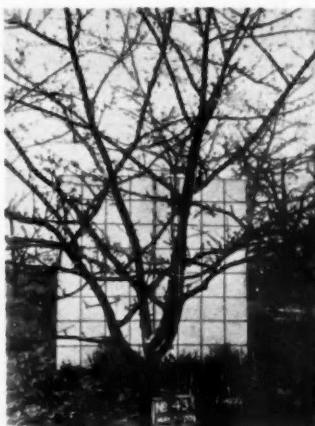
Furthermore, as the use of concentrate sprays comes more and more into the picture, pruning must be adjusted to meet this method. Too dense a tree is even more resistant to coverage with concentrate sprays than with the usual forms of application.

The use of nitrogen-carrying fer-

tillizers, now a standard practice, intensifies leaf development. This resulting density of foliage must be kept in favorable relation to the desired fruiting by means of judicious pruning.

Pruning, therefore, must be regarded as the center or core from

(Continued on page 18)



Each variety of apple tree should be pruned according to its growth habits.
Stayman (left) with coarse, thick branches does not require as much detailed pruning as Delicious (right) which has many small, thin growths.

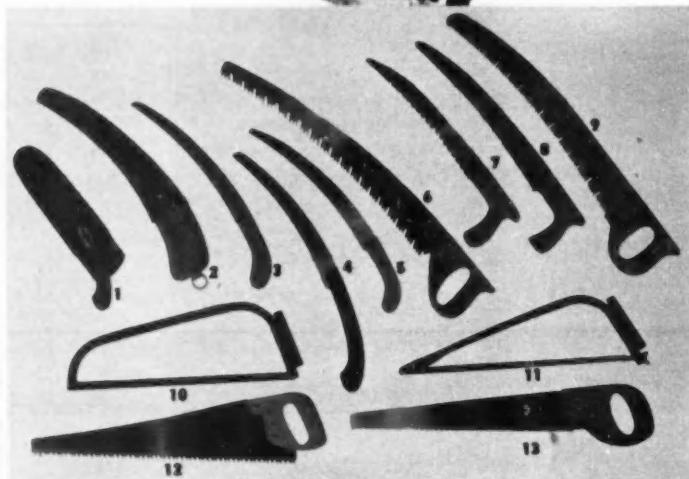


TOOLS FOR EASIER PRUNING

ILLUSTRATED on these two pages and on page 17 are the latest models of pruning tools designed especially to make your pruning job easier. Saws are available with blades of different lengths and various types of cutting edges for light and heavy pruning; the handles of pole pruners are of lightweight aluminum and magnesium or plastic insulator sections; loppers are designed to cut tree limbs more readily; while hand pruners have been improved to the point where you don't need the strength of an Atlas to snip off branches. The ultimate in ease and quickness lies in the power tools and where these can be used to advantage the grower will find them of outstanding worth.

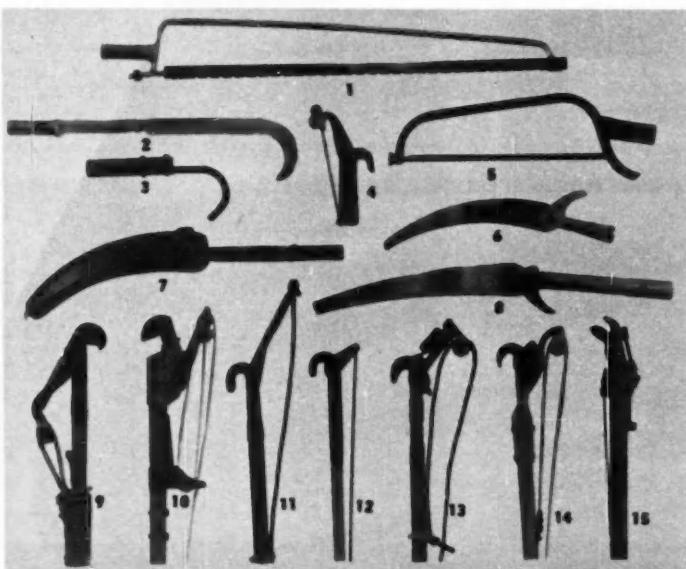
It is recommended that all types of tools be considered before a decision is made, for there is a pruning tool for every need and every circumstance. The manufacturers are more than anxious that you buy the proper tool for the job. If your orchard supply dealer cannot supply you with the type tool you wish, write AMERICAN FRUIT GROWER, Willoughby, Ohio, for the names and addresses of manufacturers.

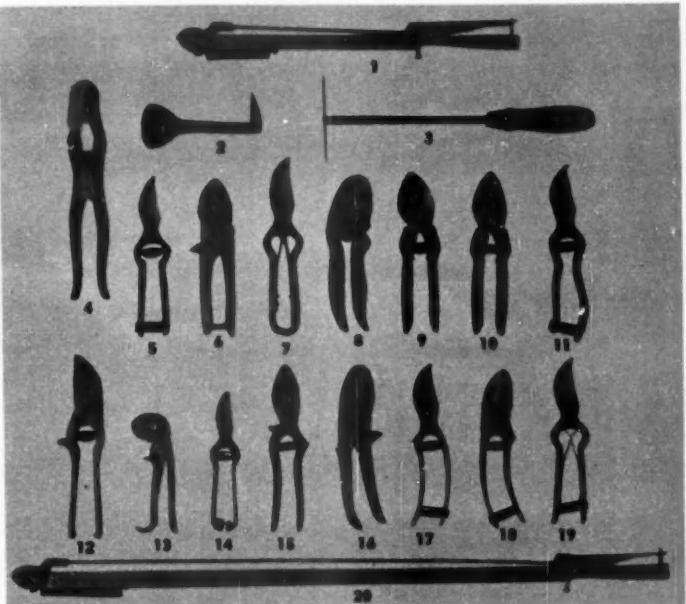
The power pruning tools, as mentioned, are illustrated and described on page 17.



SAWS

Shown above are: 1) Karl Kuemmerling folding saw, Fanno No. 2A 7½-inch with leather sheath. 2) Bartlett No. 200 California 14-inch with leather sheath. 3) Disston No. 168 14-inch. 4) Seymour Smith No. 514 8-point 14-inch, made of Swedish steel. 5) Atkins No. 120 14-inch, especially adapted for citrus pruning. 6) Atkins fast-cutting No. 3-14 Silver Flash 26-inch. 7) Atkins fast-cutting No. 6 Silver Flash 12-inch. 8) Karl Kuemmerling Fanno 16 with 17-inch cutting edge. 9) Karl Kuemmerling Fanno No. K-24 Pull Kutter with 24-inch cutting edge. 10) Whitman & Robinson lightweight with tubular steel frame and adjustable blade. 11) Whitman & Robinson No. 208 lightweight with adjustable blade. 12) Atkins No. 40 Tuttle Tooth. 13) Seymour Smith No. 922 with 5½-point 22-inch Swedish steel blade.



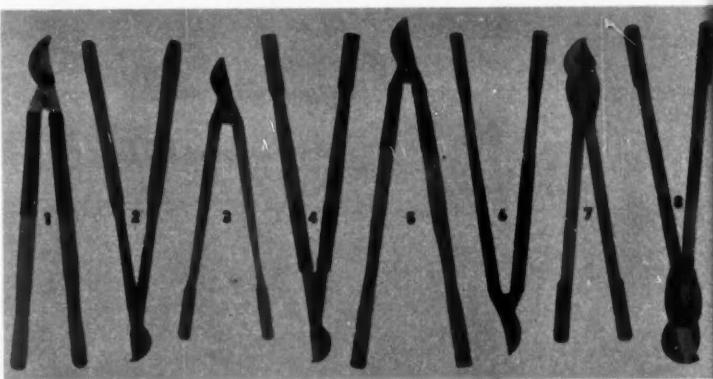


HAND PRUNERS

The photograph on the left includes a diversity of designs in hand pruners. The styles shown are: 1) Fred Marvin 15-inch pruner made of alloy steel. 2) Bartlett G-2 grafting tool (8-inch). 3) Bartlett C-4 tree scraper (14-inch). 4) Trig-O-Matic 14-ounce pruner with compound leverage. 5) Seymour Smith No. M124 8-inch "Professional." 6) Seymour Smith No. 119 8-inch with world-famous "Snap-Cut" action. 7) J. T. Henry American Reiser shears. 8) J. T. Henry. 9) H. K. Porter 12-ounce 8A DuraCut, anvil type. 10) H. K. Porter 12-ounce 8S DuraShear. 11) Disston No. 158 with leather end catch. 12) Bartlett No. 999, 9-inch. 13) Sargent "Parrot-Head," 6-inch. 14) Wiss No. 607 7-inch lightweight shears. 15) Wiss No. 808 Draw-Cut, 8-inch. 16) Wiss No. 908 Hy-Power, 8-inch. 17) True Temper No. F917, 8-inch. 18) True Temper No. 150, 7-inch. 19) True Temper No. 100, 8-inch. 20) Fred Marvin 30-inch, of alloy steel.

POLE PRUNERS

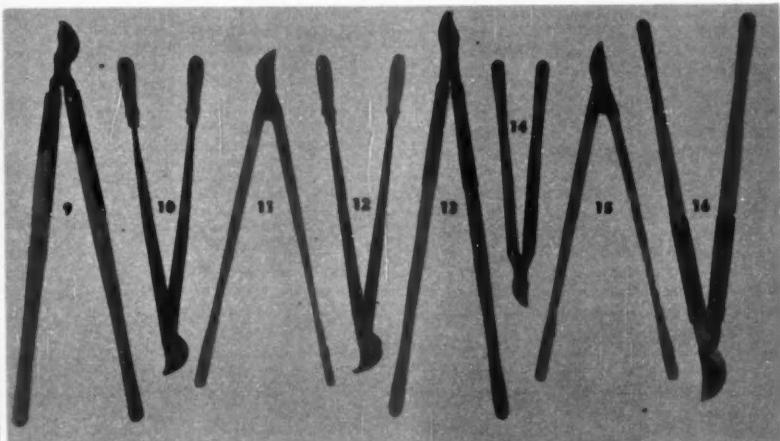
The bottom photograph on facing page shows: 1) Sebrell tree saw. 2) Sebrell curved hook knife cutter. 3) Sebrell walnut hook No. 5. 4) Karl Kuemmerling No. 111 "Telephone" head for Fanno 5-S and 9-S blades. 5) Whitman & Robinson No. 188-P 18-inch. 6) Atkins No. 16 "AAA" 16-inch head. 7-9) Bartlett WE combination, No. 4402 16-inch with leather sheath and No. 1-WE pruner head. 8) Sebrell No. 521 walnut tree pruner. 10) Sebrell No. 7 block and tackle tree trimmer. 11) Porter offset head pole pruner. 12) Seymour Smith No. 3 "Standard" 6-foot tree pruner. 13) Porter tree trimmer. 14) Fred Marvin PH2 straight angle hook. 15) Fred Marvin PS1 Angle hook.



LOPPERS

In the above photograph are shown: 1) Sargent Lopwell pruner No. 75 with silver-proof handles. 2) Disston 2½-pound, 25-inch No. 5L lopping shears. 3) Corona lopping shears. 4) True Temper No. 105 shears. 5) True Temper No. 103 shears. 6) True Temper No. 102 shears. 7) H. K. Porter 24-inch No. 124P Pointcut pruner; slide shift for greater power. 8) H. K. Porter 27-inch No. 2 Forester with slide shift.

The photograph on the left shows: 9) Bartlett No. 777 two-hand lopper, 31½ inches long. 10) Seymour Smith No. 525 Tiffany. 11) Cartwright 28L "J C & S" lightweight. 12) Coleman steel-handled pruner, cuts up to 1¾ inches. 13-14) J. T. Henry lopping shears. 15) Wiss No. 321-SA, cutting head length 3½ inches. 16) Wiss No. 224-T.



CONVENTION



Harold M. Lambert

NEW JERSEY—Dec. 1-3, at Atlantic City.

The Claridge and Marlborough-Blenheim Hotels are headquarters for the 78th meeting of the society, membership in which totals 1,173, reports Secretary Arthur J. Farley of New Brunswick.

Of especial interest to apple growers

tion, fruit queens will be honored, pie-baking champions rewarded, fruit exhibits judged and ribboned, manufacturers' exhibits enthusiastically appraised.

As this is being written, the Florida, Iowa, Montana, Oregon, and joint Minnesota-Wisconsin meetings are in progress.

About a dozen meetings are crowded into the few weeks in December preceding the Christmas holidays. Atlantic City will be the setting for the first meeting, that of the 78th convention of the New Jersey society. The dates and high points of this program as well as others to be held in this last month of 1952 and the early months of 1953 appear in the following paragraphs.

All meetings are open to all growers—society members and non-members. So plan now to be numbered in the crowds converging on the various meeting places!

NOW that the serious business of harvesting the deciduous fruit crop is over there "comes a pause in the day's occupation"—a sort of suspended feeling when thoughts wander along many different channels and the harsh outlines of the year just closing take on a softness while the year ahead appears in faint perspective.

Literally speaking, there of course is no dormant season for the successful fruit grower, as Dr. Howlett so aptly points out in the leading article in this issue. For, among other tasks, the important job of selling the crop is at hand. Secondly, this is the season of the year when growers plan their annual get-togethers, for Convention Time Is Here Again!

True to tradition, the secretaries of the state horticultural societies have been extremely busy preparing and arranging speaking and entertainment programs to interest every horticultural society member and his family.

Important cultural topics will be discussed by authorities, for the theme of most of the meetings centers around the production of quality fruit. The increasingly interesting and challenging task of *selling* rather than marketing these quality fresh fruit crops will receive attention.

TIME Is Here Again...

Horticultural society meetings will feature round-the-year topics and exhibits of machinery and supplies

MICHIGAN—Dec. 2-4, at Grand Rapids.

The joint program of the Michigan society and the American Pomological Society will aim to give all-inclusive coverage of marketing and production of cherries, peaches, and apples. Out-of-state speakers will include George D. Sears, director of research, American Farm Research Association; M. J. Dorsey, secretary-treasurer, National Peach Council; Sammel Fraser, executive vice-president, International Apple Association; and P. A. Minges, extension vegetable crop specialist, University of California.

Presentation of the Wilder Medal Award of the APS will be a part of the banquet program, as will be the crowning of the Michigan Apple Queen. Over 70 commercial exhibits will give growers an opportunity to closely examine pruning, spraying, irrigation, tillage and other orchard equipment.

H. D. Hootman, East Lansing, is secretary of the Michigan society; W. D. Armstrong, Lexington, Ky., secretary of the APS.

CONNECTICUT—Dec. 4-5, at Hartford.

The program of the 62nd meeting of the Connecticut Pomological Society, to be held in Hotel Bond, will be handled mostly by local talent and a few outsiders, including C. O. Dunbar of Maryland. Marketing (with special emphasis on roadside selling), reducing overhead costs in harvesting and pruning, fundamentals of orchard soils, and insect and disease control are the important topics up for discussion.

Awards to be made during the annual banquet include the Certificate of Distinction to an outstanding grower, the \$100 H. C. C. Miles award to an outstanding student in pomology at the University of Connecticut, and an electric range to the winner of the state apple pie contest. A new feature of the fruit exhibit will be commercial packed boxes of apples selected from markets and scored by inspectors, says Secretary S. P. Hollister of Storrs. About 500 members make up the roster of the society.

KANSAS—Dec. 4-5, at Hutchinson.

Five successive crops of peaches in Kansas have heightened the interest of growers in the Queen of Fruits and much

attention will be given the discussion centering around Her Majesty which Dr. Leon Davis, USDA, Beltsville, Md., will present during this 86th meeting, arranged by Secretary H. L. Drake of Bethel. Dr. Dwight Powell, University of Illinois, will give growers the latest information on fire blight as well as concentrate spraying. Dr. D. D. Hemphill, University of Missouri, will discuss chemical weed control in strawberries, and Emmet Schroeder, a local grower who has a remarkable collection of French-American hybrid grapes, will discuss the possibilities of growing these varieties.

TENNESSEE—Dec. 4-5, at Jackson.

Top-flight speakers make up a strong program arranged by Secretary A. N. Pratt of Nashville and a large turnout of the society's 450 members, together with growers from nearby states, seems assured. Headquarters for all sessions and commercial exhibits is the New Southern Hotel.

Dr. Bruce Gleissner, American Cyanamid Co., New York, will speak on the newer phosphatic insecticides; Dr. C. P. Harley, senior physiologist, USDA, Beltsville, Md., will tell of dynamic results from high-nitrogen mulches; Dr. T. J. Talbert, horticulturist emeritus, University of Missouri, will discuss supplemental irrigation of horticultural crops; John T. Breger, USDA, Clemson, S.C., will take up the newer developments in peach orchard cover crops; while Dr. J. P. Overcash, horticulturist, State College, Miss., will report on six-year peach fertilization tests. Strawberry production problems for 1953 will be explained by University of Kentucky's W. W. Magill.

WASHINGTON—Dec. 8-10, at Yakima.

Educational exhibits, fruit exhibits, commercial equipment, labor-saving devices and ideas are forms of visual education which the Washington State Horticultural Assn. will present during its three-day program. Apple merchandising with special emphasis on the need of placing top quality fruit in the hands of the consumer will be stressed during the speaking program of this 48th annual meeting, as will cultural and handling methods to insure the production of such quality fruit.

Out-of-state speakers will include A. J. Hemicke, New York Experiment Station; R. G. Partridge, United Fruit Co.; Rodgers S. Brown, Wesco Foods, Inc.; James Marshall, in charge of fruit insect investigations in British Columbia; and D. W. Thorne, Utah State College. Residual effect of new insecticides on cannery tools will be handled by Dr. Russell Esty, Western Branch Laboratory, National Canners Association, reports Dr. John C. Snyder, secretary, Pullman.

DELAWARE—Dec. 9-10, at Dover.

The fruit meeting on the second day of the 66th annual convention of the Peninsula Horticultural Society will cover such basic topics as insect and disease control. J. C. Dunegan, USDA, will present new information on the overwintering of the peach bacterial spot organism. Chemical thinning and ground sprays for orchard mouse control also will receive attention, reports Secretary Robert F. Stevens of Newark. The first day of the meeting will be devoted to discussions on vegetable and truck crops.

OKLAHOMA—Dec. 9-10, at Wagoner.

Three major panel discussions in which growers as well as research workers will take part will feature the Oklahoma State Pecan Show and Meeting, state's Assistant Secretary Fred LeCrone of Stillwater. The first panel discussion will cover soil management practices. The second panel will discuss insects and diseases, while the third panel session, on grading and marketing, will feature talks by pecan crackers as well as buyers and handlers. The association's 120 members are located in Oklahoma, Texas, Arkansas, and Kansas. D. C. Mooring of Stillwater is secretary.

ILLINOIS—Dec. 9-11, at East St. Louis.

Thorough discussion of production problems to insure grower-members having up-to-date information for the production of high-quality fruit in 1953 will take place during the first and third days of the convention to be held in the Broadview Hotel, Secretary Harvey B. Hartline of Carbondale reports. On the second day the subject of Marketing will be given its just share of attention, in fact, this topic will be carried over into the banquet program when Carroll R. Miller, secretary, Appalachian Apple Service, Inc., will discuss, "What's Ahead in Apples." Some 25 exhibitors will show products of interest to the 1,150 society members.

ARKANSAS—Dec. 10, at Springdale.

The past year having been one of drought and high insect infestation, supplemental irrigation and insect control measures will be featured and discussed by University of Arkansas specialists Dr. J. L. Bowers, Russell Benedict, J. L. Gattis, Dr. W. D. Wylie, Floyd D. Miner, and Gordon Barnes.

Growers from the northwest section of the state comprise for the most part the membership of the society which totals about 150. For some years apple acreage has been dwindling and as a result growers are primarily interested in small fruits and truck crops, reports Secretary Earl J. Allen of Fayetteville.

(Continued on page 21)



KILL

SCALE and other Harmful Insects! **SUNOCO** Self-Emulsifying SPRAY OIL

Thorough, year-by-year spraying with Sunoco Self-Emulsifying Spray Oil will pay off in healthy, pest-free fruit trees. Orchardists have relied on it for more than 25 years to control nearly all kinds of scale and other insects. Sunoco Self-Emulsifying Spray Oil is easy to use, can't be beaten for economy.

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WASHINGTON FRUIT LETTER

- Appalachian Testimony "Under Advisement" by FTC
- Equipment and Pesticides to be in Good Supply

By LARSTON D. FARRAR

Washington Correspondent, American Fruit Grower

THE Federal Trade Commission's "case" against Appalachian Apple Service, Inc., Martinsburg, W. Va., has been explored in hearings held in the imposing FTC building here, with all sides having been heard and the hearing examiner having taken the testimony "under advisement." The hearings were open and representatives of other fruit groups were on hand to see how the FTC's case developed.

The actual complaint — FTC No. 6041 — charges Appalachian Apple Service, its officers, directors, members, agents, representatives and committees, and five nationally-known apple processors with "combining to fix, stabilize, and maintain the prices for raw apples used for processing purposes." The charge also was made that, by agreement, shipments of apples have been diverted from one processor to another as a part of a plan to prevent excessive supplies of

apples getting into the hands of one processor and a possible price break resulting from that action.

FTC officials in charge of prosecuting the case were optimistic about their chances of obtaining a "cease and desist" order against Appalachian Apple Service and the processors. One agent said that he considered the case against the apple men as "open and closed."

This FTC agent pointed out that the apple growers involved had had a chance to obtain special privileges from the USDA. Other farm groups, he pointed out, have availed themselves of these agreements, which, in effect, legally set aside the workings of the anti-trust act and other laws which the FTC administers. However, the apple growers of the Appalachian area have not availed themselves of the chance and have not qualified legally to work together to

(Continued on page 14)

FRUIT PEST HANDBOOK

(NINETEENTH OF A SERIES)
PEAR LEAF BLISTER MITE

THROUGHOUT the United States the leaves of apples and pears are often disfigured by small reddish or greenish yellow blisters that later turn brown and cause dead areas. These swellings or blisters are caused by the pear leaf blister mite, one of the smallest animal forms attacking deciduous fruits. Living in the buds, foliage, and fruit of apple and pear trees, the mites are less than one-hundredth-inch long. Greatly magnified, they appear as elongated, whitish, worm-like creatures with four legs near the hind end.

The adult mites spend the winter under the scales of leaf and fruit buds, often hundreds of them in a single bud. When the buds begin to swell in the spring the mites lay their eggs in the buds and the young bore into the unfolding leaves where their feeding causes the characteristic blisters. These at first are small and pimple-like and are most prominent on the upper surface of the leaves. The tiny blisters soon increase in size, sometimes becoming as large as one-eighth inch in diameter. When numerous the spots may merge, forming large patches of variable size. Badly infested leaves are likely to fall prematurely.

The fruit of the apple is more seriously injured than that of the pear. Fruit that is af-

(Continued on page 20)

Photographs show pear leaf blister mite infestation on apple leaf; adult mites (greatly enlarged); and deformed and russeted apple due to mite injury.

U.S.D.A. Photographs



SPRAYERS—WHAT TO LOOK FOR AT THE WINTER HORTICULTURAL SHOWS

By M. A. DEVEREAUX

GRWERS from far and wide will be attending Horticultural Shows starting this month. Perhaps the most important part of any Horticultural Show for the grower is the exhibit of the equipment manufacturers. This year, more than ever, the PROFIT-WISE grower will be looking carefully for spraying equipment which meets four basic requirements. These important requirements are first, low original cost; second, consistent and highly efficient insect and disease control; third, equipment which can be operated easily by one man; fourth, low maintenance costs.



Mr. James Ackerson—who has converted his orchard spraying operation to concentrate with greater profits.

Nothing succeeds like success, and Mr. James H. Ackerson and his brother of Hazlet, New Jersey, one of the largest fruit growers in New Jersey, reports now that they have solved their spraying problems by purchasing one of the new concentrate type sprayers. Mr. Ackerson and his brother have for years struggled with the now old fashioned, hydraulic and very expensive sprayers. Since converting to the modern, efficient and much less costly concentrate sprayer, the Ackersons have reduced equipment cost by over 50% and their annual maintenance costs by over 60%. The Ackerson operation has been so successful that twelve other

Concentrate spraying is probably one of the most important topics facing growers today. This is the first of three articles designed to give you the latest and best information on concentrate sprayers.

Buffalo Turbines have been sold to neighboring growers, with equal results.

Naturally, when the Ackersons became interested in concentrate spraying, they wanted to buy the best available, and thus it was not unusual for them to seek out the pioneer in concentrate sprayer design and construction, the Buffalo Turbine Agricultural Equipment Co., Inc., of Gowanda, New York. This company eight years ago produced the first concentrate mist sprayer for commercial purposes, utilizing the "know how" developed during the war in the testing of high speed super-chargers. It was apparent that in the development of superchargers high velocity air could be used to atomize concentrated insecticides and fungicides. Therefore, the principle was further developed and improved for the specific application to orchard control problems. After a great deal of extensive orchard testing, the axial flow blower, as now used by Buffalo Turbine, was developed, and has proven in seven years of owner experience to provide complete insect and disease control with low original cost, greatly reduced maintenance costs, and was the first sprayer in the field that could be easily operated by one man.

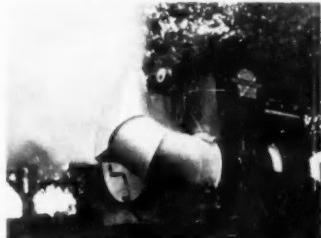
Buffalo Turbine, and a great many owners, felt that a quicker field approval and acceptance could be had by placing the

machines in the hands of leading orchardists, whose one desire was to operate their orchards on a profitable basis. The co-operation and generous help extended the company by Experimental Stations has added greatly, but often this work has been delayed and the growers, who needed more efficient equipment have suffered unduly.

Buffalo Turbine will probably have an exhibit at your Horticultural Show and the author strongly urges you to give careful consideration to this new concentrate equipment. Wise growers will take time to inspect the Buffalo Turbine equipment on display and to analyze the opportunity offered them to reduce their costs. You will be surprised at the low cost of this good concentrate equipment!

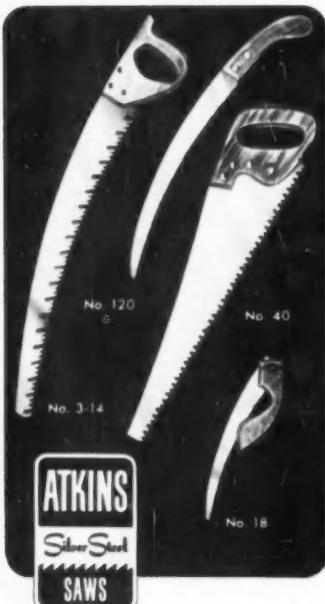
Increase your profits in 1953 along with the Ackerson brothers!

BUFFALO TURBINE
AGRICULTURAL EQUIPMENT CO., INC.
GOWANDA, N. Y.



Silver Steel

FOR EVERY PRUNING JOB



● You'll find the right saw for every job—at the right price—in the famous Atkins line of pruning saws. You'll find *Silver Steel* designs for every kind of pruning job—with specially alloyed blades that stay sharp longer. And you'll find that every Atkins pruning saw gives you everything you could ask for in ease, speed and durability. Ask for these *Silver Steel* pruners!

No. 3-14—Here's a strong pull cut pruning saw that's a favorite with tree surgeons. New style teeth give deep cuts with easy strokes—do a faster, neater job.

No. 120—Fruit growers find this curved pruner their handiest tool. Its sharp peg teeth and extremely narrow tapering blade give it unusual flexibility and efficiency.

No. 40—A special handle and super fine *Silver Steel* blade give this saw new cutting ease and cutting speed. The extra sharp tuffie teeth cut deep with every stroke—make tough jobs easy.

No. 18—Here's an "extra pruner" for all-round use. Folding hardwood handle makes it easy to fit into the pocket. Just fold it over the hook-back peg teeth.

BW ATKINS

ATKINS SAW DIVISION • BORG-WARNER CORPORATION
INDIANAPOLIS 8, INDIANA
Successor to E. C. Atkins and Company

FRUIT LETTER

(Continued from page 42)

boost their prices, he asserted further. Just how the case might go is not known to anyone in Washington.

THE days of shortages, as to farm machinery and pesticides, are already past, and it seems likely that second-hand farm machinery and parts for old machines will be cheaper this coming year than last, according to economists here. Fruit growers will have no difficulty in obtaining chemicals for pest control, according to the National Agricultural Chemicals Association. New farm machinery may be in short supply until April or May, 1953, when final effects of the steel strike will have disappeared from the economy.

Farmers now are spending some \$300 million annually for pest control materials or roughly one per cent of their gross sales. O. V. Wells, chief of the Bureau of Agricultural Economics, USDA, has pointed out.

TO prevent interference with USDA programs for current crops of tree nuts, the U.S. Tariff Commission has recommended to the President imposition of a fee on imports of shelled almonds, and an absolute quota on imports of shelled filberts until September 30, 1953.

The President accepted the commission's recommendation on almonds and has issued a proclamation imposing a fee of five cents per pound on shelled almonds entered or withdrawn from warehouse until next September 30, until seven million pounds have been entered or withdrawn, and a fee of 10 cents a pound on shelled almonds entered or withdrawn in excess of this quota. However, the President said he will not act on the recommendation to impose additional restrictions on imports of shelled filberts.

THE END

BUILD FOR THE FUTURE

Economy-minded fruit growers who want to improve and expand their orchard operations and build for the future should have the following building plans which AMERICAN FRUIT GROWER is now making available to its readers.

Working drawings showing construction details are included.

Rootside Market	\$.50
10,000-Bushel Apple Cold Storage	1.00
Tenant House	1.00
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Prune With Air! Save Time, Labor, Money

Greatest pruning machine ever offered the fruit grower. Enables one man to do the work of three. Aluminum construction—very light, easy to use all day long.

With only 2 cu. ft. of air per minute, will take a full 2" cut. No side-arms. Streamlined to go readily into small spaces.

Prices: 3 ft., \$99.00; 4½ ft., \$101.75; 6 ft., \$114.50; 7½ ft., \$117.25; 10 ft., \$119.00. Other sizes. Available: a small, portable Worthington Blue Brute Air Compressor, complete with gasoline engine and all fittings, price, \$135.00. This will operate any one shear satisfactorily. Write for full information.

The J. T. Henry Mfg. Co.
Hamden, Conn.

The QUESTION BOX

How much TCA should I use to kill quack grass?—Wisconsin

One hundred pounds of TCA per acre is generally sufficient to kill quack grass if weather conditions are suitable after application. Sixty to 80 pounds per acre frequently gives satisfactory control over quack grass when used in conjunction with cultivation. One word of caution: TCA should not be used on lawns or other turf areas nor close to desirable shrubs, trees, and ornamentals. Some fruits, such as blueberries, are also very sensitive to TCA.

Where can I get additional information on common storage construction?—New Jersey

There are two men who are experts on common storage construction and who can help you out with bulletins and other information. They are Dr. R. M. Smock, Department of Pomology, Cornell University, Ithaca, N.Y., and Dr. Donald Comin, Ohio Agricultural Experiment Station, Wooster, Ohio.

When removing large apple branches how can I avoid cuts that may eventually kill the tree?—Washington

First, be sure the cut is necessary. Making a large cut is almost certain to involve some risk. Removing the branch in stages helps. In doing so, leave a stub two or three feet long and come back and make the final cut three or four years later. In the meantime keep the stub alive but don't fail to come back later and remove it by making a cut flush with the remaining branch.

Would an oil spray during a warm period of winter and a lime sulfur spray in the spring be satisfactory for peaches?—Virginia

An oil spray is not necessary unless scale is present. If scale is present, use a three per cent oil with a 3-6-100 Bordeaux mixture. If the trees are free from scale use three gallons of liquid lime sulfur in a dormant spray for leaf curl. Oil sprays should be applied only when they are expected to dry thoroughly before temperature drops to freezing.

The article on grape juice production in California by W. V. Cruess in a recent issue mentioned the use of Lithcote lined tanks to combat the acid action of grape juice. Could you tell me where I may obtain Lithcote?—Missouri

Lithcote, a product used in California for coating wine tanks, is sold by J. A. Lithgow, 4663 East Sheila St., Los Angeles, Calif.

Where can I obtain Thompson Seedless grape vines?—California

Thompson Seedless grape vines may be obtained from the California Nursery Co., Niles, Calif., and the Armstrong Nurseries, Ontario, Calif.

DECEMBER, 1952

The Air Blast Sprayer built to meet average needs



This new Hardie one-man Air Prince sprayer brings the valuable benefits and economies of air blast spraying to the many growers whose needs do not demand the larger Hardie units. Big volume, high velocity air stream is provided by 29" Hardie aluminum alloy fan, driven by 31 HP air cooled engine. Complete coverage assured through fine atomization of spray liquid by Hardie high pressure pump. Tractor seat control of two six nozzle high pressure booms by Hardie spring-action Win-pull valves. Adjustable deflectors permit variation of spray pattern according to tree height. Users acclaim the versatility and wide range of performance of the Hardie Air Prince. Discharge valve at front permits hose connection and the full use of the Hardie high pressure pump for spot and clean-up work and the many other spray applications required on every farm today. Write for complete data. Use the coupon.



"a whale
of a sprayer!"



- Air Blast sprayers for dilute, semi-concentrate and concentrate spraying.
- Hardie Blo-Spray, the completely equipped unit for converting a high pressure sprayer to an air blast sprayer.
- High pressure sprayers in many models from 3 gpm at 250 psi to 80 gpm at 1000 psi.
- Row crop sprayers and booms in many models and sizes.
- Row crop dusters of new, advanced design.
- General utility sprayers for weed, brush and animal pest control and the numerous spray applications now common on every farm.

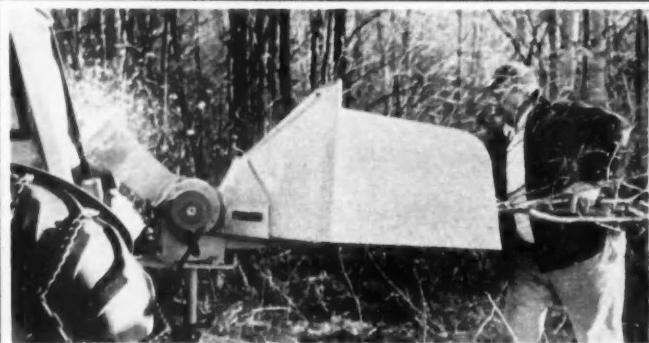
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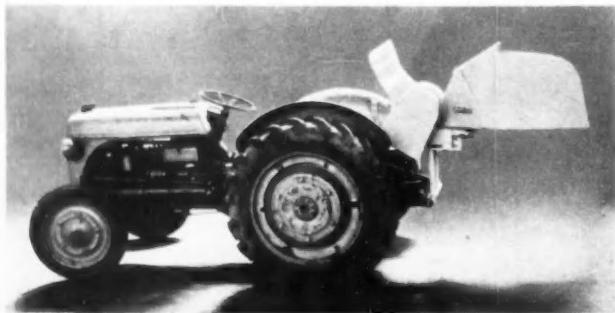
EASY BRUSH DISPOSAL

from fast working power-driven loppers and shears is now possible with the Fitchburg Chipper. This sturdy, powerful and fast cutting machine can be either tractor or truck mounted. It cuts either large or small branches with equal facility. Many units now being used by commercial growers have paid for themselves in two seasons. Increase your orchard profits.

THE FITCHBURG CHIPPER

• There just isn't any brush problem if you use a Fitchburg Chipper. As fast as prunings are cut from the trees, they can be fed into the hopper and converted into useful mulch. The United States Dept. of Agriculture recommends wood chips for the generation of valuable nitrogen in the orchard floor. The Fitchburg Chipper is the fastest and most economical machine for this purpose.

Write today for prices and details. State maximum size of prunings.



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Song of an Orchardist

COMPOST

By ALBERT L. MASON
Albion, N.Y.

Have you heard the compost story;
What it does for Mother Earth?
Please consider for a moment
What an angleworm is worth!

Has your garden gone organic?
Do you have a compost pile?
Have you grown so mulchin' conscious
You can't take it with a smile?

I'm just lukewarm on this subject;
There are some about to boil!
Such a fellow's compost crazy;
Works like magic in his soil!

He would like to sell his spray rig;
He has thrown away his plow!
Compost makes his earthworms hungry;
They will work his soil up now!

Apple trees will be so healthy;
All disease will disappear!
Bugs become quite non-existent
In the compost atmosphere!

I have practiced mulchin' orchard
Now for twenty years or more.
Compost must be somethin' different
'Cause I've still got bugs galore!

Compost fever 'sure is catchin';
Fraid my wife will go insane!
Conversation's gone organic;
She's got humus on the brain!

She gave up convicin' hubby;
I demurred in self defense.
So she built her little secret
Out behind the garden fence.

I went walkin' in the moonlight
Back beyond the hollyhocks,
Where I usually dump my ashes
And I grow my best burdocks!

Headin' over towards the orchard
For a peaceful evenn' stroll;
Sniffin' at the apple blossoms,
As I started up the knoll.

Just got nicely past the quince bush,
When I stubbed my toe and fell!
Landed in her pit of compost
That was workin' none too well!

Garbage, leaves, and chicken feathers,
Offal from the butcher shop,
Layered up with lime and top soil,
I fell in headfirst ka-plop!

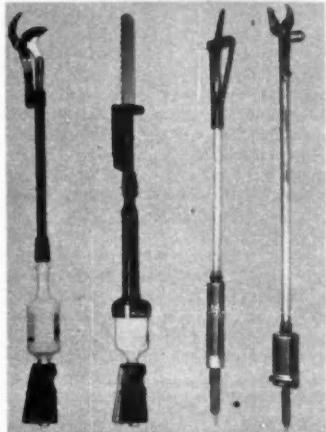
Quite a brew she had concocted,
Hidden there to stew and steep!
So you see I learned the hard way
How to build a compost heap!

As I walked back towards the woodshed,
I could hear my dear wife yell,
"What the dickens are you doing?"
What on earth's that awful smell?"

Threw my clothes back in the compost!
They were much too damp to burn!
Built a fence around that sink hole!
Husbands have to live and learn!

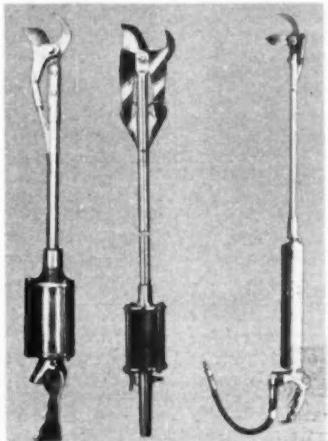
Please now, you organic gardeners,
Excuse this rhymster's foolish wit.
Research makes for progress, yes sir!
Still I like to laugh a bit!

POWER PRUNERS



Speed and ease are the outstanding advantages of the power pruning tools. Models shown above are, left to right: 1) Miller-Robinson 4½-pound air-powered Model C; 11 Limb-Lopper, cuts limbs up to one inch in diameter, operates at a speed up to 120 strokes a minute. 2) Miller-Robinson 5½-pound air-powered Limb-Lopper saw, Model RA-21, cuts up to 6 inches in diameter, operates at 1,000 strokes a minute. 3) King J-K Medium 6½-pound Vibra-Saw, has a 3-inch stroke, cuts up to 4 inches in diameter. 4) King J-K Medium B 6-pound aluminum tree trimmer, cuts up to 1½ inches in diameter.

Models shown below are, left to right: 1) Bud Manufacturing Co. 3-foot, 5½-pound "Bud" orchard pruner, cuts limbs up to 1½ inches in diameter at 100 strokes a minute. 2) J. T. Henry No. 500 Silver Giant 7½-pound power pruner, has no protruding levers, is 4½ feet long, cuts up to 2 inches in diameter. 3) Neway Hydrodynamic pruner.



DECEMBER, 1952



one man

- ✓ Sprays 46 acres in 1½ days ✓ Cuts spray time in half
- ✓ Gets complete coverage ✓ Saves ⅓ in spray materials

with

John BEAN

Speedaire

W. H. Riley, owner of the Riley Orchards in Mears, Michigan, added a Speedaire attachment to his 4-year-old John Bean Royal 35 sprayer. Despite the fact that his 46 acres contained mature apple trees and big cherry trees with overlapping branches, Mr. Riley found that with the Speedaire one man could completely cover the entire 46 acres in 1½ days. The Speedaire was easily nozzleed to provide maximum height and penetration for the difficult spraying areas. Riley saved about $\frac{1}{3}$ on spray materials over previous methods of spraying with a hand gun. His control throughout the season was excellent.

SPEED SPRAYER for the BIGGER JOBS

For fast, efficient air spraying for larger orchards, John Bean offers the new 1953 SPEED SPRAYER. No sprayer has ever out-performed a Speed Sprayer — available in two models.



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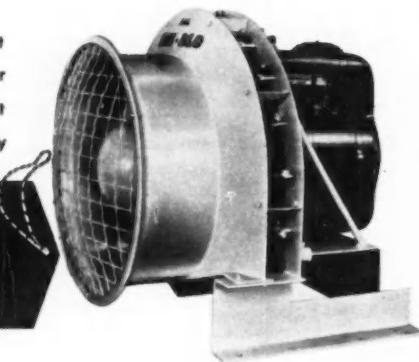
...Spray Any Day, Any Hour the ONE MAN Way with a

BIG BES-BLO

Converts your present
high pressure sprayer
for efficient Air-Blast
operation for only

\$741⁴²

F.o.b. Peoria, Illinois



Also larger and smaller sizes—one is **RIGHT** for you.

LOOK AHEAD and beat pests to the punch. Bes-Blo owners are always ready for action at the right time—no waiting for spray crews. One man does it all,

SAVES up to 2/3 on labor
SPRAYS FASTER, gets
thorough coverage

SOLD COMPLETE, ready to mount, with

- STURDY ENGINE,
Wisconsin air-cooled type
- AXIAL FAN,
replaceable blades,
strong safety guard

- ADJUSTABLE DEFLECTORS
for 1 or 2-way spraying
- MANIFOLDS and NOZZLES,
uniformly fine atomization



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PLAN YOUR PRUNING

(Continued from page 7)

which other practices radiate. The pruning program should be formulated in advance, budgeted as to time, co-ordinated with other practices, and related directly to specific objectives and specific varieties. Finally, it must be carried out with due regard to the past and the approaching crop.

It is true that pruning has a pronounced effect upon the physiological processes and the subsequent behavior of the tree. With a temporary reduction in the size of top, and with no change in the absorbing root surface, the supply of water and soil nutrients to the tree is increased and the effect upon the remaining growing points is improved.

Thus it becomes apparent that a concentration of growth processes is encouraged by pruning and for that reason the quality of the product is favorably affected. As must be said of all fruit growing practices, no one operation is in itself the complete answer; each is a link in the long chain from flower bud to harvest. But effective pruning is certainly one of the accepted ways of reducing the per bushel production cost of quality fruit.

Type of Pruning

Which point brings us to the controversial question of which type of pruning is most effective. The final objective is to obtain the greatest gain from the least cost and effort.

Shearing off the top to bring the tree down to a reasonable height is certainly meritorious and relatively simple, but this may not greatly improve conditions within the remainder of the tree. Neither will the removal of so-called "thin wood" from the inner portion of the tree insure thorough spray coverage of leaves and fruit at the too-dense periphery.

Pruning, to be conducive to maximum fruit quality, involves the thinning out of small branches throughout the periphery of the tree so that spray coverage will be improved, rate of drying of spray material on foliage and fruits accelerated, and photosynthetic activity of the inner foliage stimulated. In other words, the motive is to increase the efficiency of the most effective fruiting points throughout the tree.

In order to accomplish this purpose and at the same time prevent unnecessary yield reduction, growth habits of

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you details of their products. Be
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GROWER when you write.

the variety must be taken into account. For example, a moderate number of rather coarse, thick branches characterize the Stayman apple variety, while the long willowy branches of Rome Beauty often droop one upon the other forming an almost impenetrable barrier to adequate spray coverage. In the case of Rome Beauty, therefore, a much more extensive thinning out is required than with Stayman. Jonathan may be considered intermediate in this respect but as leaning toward the habits of Rome Beauty.

A variety such as McIntosh and the new variety, Franklin (McIntosh x Delicious seedling), tend to bear fruits in the interior of the tree. Trees of this type require careful pruning at the periphery. Such pruning permits

HANDY ANDY



Packing blueberries is easier and quicker with this homemade circular arrangement for quart boxes as used by H. Leslie Curtis, Belknap County, Gilford, N. H. Twelve metal quart box holders attached to a Model-T hub and wheel bearing with a hinged spring-like device do the job. After passing directly over a sloping piece of metal, the raised box rests on a weighted balance. As soon as the box is filled according to weight in berries, the scales tip and the box moves on. The weight of the packed box on the offset circular wheel draws the next empty box onto the weighted balance and the operation is completed.—C. L. Stratton.

the entrance of light which is so essential for color and at the same time facilitates spray coverage and prevents the development of apple scab.

Fruit Setting Habits

The fruit setting habit of each variety must also be considered. Stayman, Turley, and Delicious, as well as their mutations, tend to produce only one fruit to a cluster after the June drop. Varieties such as Rome Beauty, Gallia Beauty, Golden Delicious, Grimes Golden, Early McIntosh, Duchess, and Yellow Transparent, tend to produce from two to four fruits to a cluster.

In the case of the light-setting varieties competition is at a minimum

(Continued on page 20)

NOW's the time
to be thinking
about PROFITS
on your
next crop



NOW's the time to
be looking into
"FIELD-ICING"
(Packing for market with crushed
ice in bags, baskets or crates.)
and
"HYDRO-COOLING"

(Rapid removal of field heat by
means of an ice-chilled water bath.)

Now's the time to get full information on these
two proved ways of making sure of better con-
dition and premium prices.

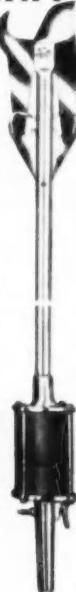
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OF ICE INDUSTRIES

1706 L STREET, N. W., WASHINGTON 6, D. C.

SILVER GIANT

- SAVES TIME
- SAVES LABOR



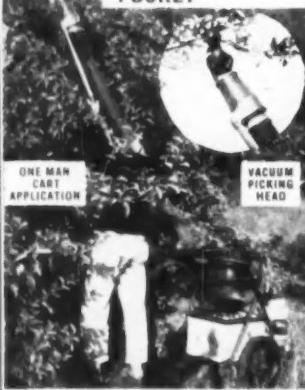
The HENRY is an economical pruner. Initial outlay is low. Economical to operate—orchard designed. No protruding arms or levers. Limbs cannot get in the way of the two cutting jaws. Both jaws close on the limb to be cut—insuring positive and clean cutting action.

We stand behind every HENRY pneumatic pruner we sell. Try one in your orchard. If not satisfactory we will gladly return your money. One of the Mid-west's largest suppliers of orchard tools.

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Most fruits over 2" diameter picked by direct vacuum pull with citrus fruits being severed from stem by spinning rotary collar with direct vacuum delivery. Pick the bruise free way. Write today.

FARM MACHINERY INC.

CANANDAIGUA, NEW YORK
SUBSIDIARY OF THE E. C. Brown Company
Mfrs. of Farm Equipment Since 1899

PLAN YOUR PRUNING

(Continued from page 19)

and further reduction by means of pruning is extremely effective. In the case of the heavy setting varieties pruning reduces competition to a lesser degree in that its benefits are divided among a greater number of fruits. Nevertheless, if well distributed it can greatly improve both size and color, though never obviating the need for thinning.

A Planned Program—NOW!

A well-planned pruning program for apples was never more indicated than at this time. The 1952 season produced a light crop of fruit in the East and already there is evidence of the heavy bloom which is to be expected in 1953. Barring frost injury the grower should plan a well-distributed and thorough pruning program now in order to obtain the crop benefits enumerated. Otherwise a bumper crop of small green apples can be expected in 1953.

As I looked over Ohio apple orchards this year, pruning appeared to me to be the orchard stepchild. This may have been due in part to the fact that growers felt they should discontinue pruning at the start of delayed dormant spraying. However, in order to obtain the necessary benefits it is recommended, in Ohio, that pruning be continued through early spring, even into June if necessary, in order to finish the job. **THE END**

BLISTER MITE

(Continued from page 12)

tacked when young may be russeted and deformed and may sometimes crack when mature. At times small pimples appear on the fruit, mostly around the calyx end; however, these seem to cause no material injury. The mites also often injure and deform the blossoms.

When mature the mites escape through minute holes near the center of the blisters on the underside of the leaf and migrate to new leaves to start fresh blisters. Breeding is continuous throughout the summer. With the approach of cold weather the mites migrate to the buds for the winter.

There is some evidence that the mites attacking apple and pear are distinct species. Often apples will be injured while adjacent pear trees will remain uninjured. On apples the blisters usually occur at the base and along the margin of the leaves; on pears usually along each side of the midrib.

Control. The pear leaf blister mite only occasionally is serious enough to require the application of sprays for its control. When abundant, it is easily controlled by application of an oil spray or liquid lime sulfur in the spring just before the buds break or in the fall as soon as the leaves have dropped. Oil emulsions are most effective if applied just as the buds are swelling noticeably. A three per cent dormant lubricating oil emulsion or six and one-half gallons of liquid lime sulfur in sufficient water to make 100 gallons of spray should be used.

Sprays applied during the summer are ineffective.—Howard Baker, USDA.

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Reliable power for garden tractors, elevators, portable saws, sprayers, concrete mixers, pumps and a wide range of other orchard, farm and industrial uses.

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MODEL 52 (Trees up to 5" Dia.) use with any tractor. Wt. 19 lb. \$9.85 ea. Add \$1.25 P.P. & Ins. West of Miss. \$1.75

MODEL 121 (Trees up to 12" base diam.) Trees larger than 5" require tracklayer (crawler) or half-track, or wheel type tractor with 10,000 draw bar pull. Weight 36 lbs. Shipped Express Collect

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AMERICAN FRUIT GROWER

CONVENTION TIME

(Continued from page 11)

UTAH—Dec. 12-13, at Salt Lake City. Secretary Gene Oberly of Logan reports that grower-members, totaling about 200, will have an opportunity to get personally acquainted with Dr. R. M. Bullock, new head of the horticultural department, Utah State Agricultural College, as he will be a featured speaker during the meeting at the Newhouse Hotel. His subject, "Minor Element Deficiencies and Chemical Blossom Thinning of Apples," Dr. Bullock was formerly with the Tree Fruit Experiment Station, Wenatchee, Wash. USDA irrigation specialist George Clyde is scheduled to discuss "Water Use." A panel feature on insect and mite control problems has been arranged by commercial companies and will be headed by A. F. Kirkpatrick of American Cyanamid Company.

MARYLAND—Jan. 5-6, at Hagerstown.

Secretary A. F. Vierheller of College Park has this to say about the forthcoming 55th meeting to be held in Hotel Alexander. Tentative outline includes: Discussion of plans and precautions in meeting the "locust year" threat in 1953; orchard heating; problems of fruit storage; spraying effectively with least injury to fruit finish.

A grower panel will tell of experiences and results in following the spray program. Pointers and observations in retail fruit sales may help growers see what happens to their fruit at the selling end. Another grower panel will discuss cost-cutting orchard operations. Featured speaker is expected to be Dr. L. P. Batjer, USDA, Wenatchee, Wash.

MISSOURI—Jan. 5-6, at Columbia.

W. R. Martin, Secretary, Columbia.

MASSACHUSETTS—Jan. 6-8, at Worcester.

The McIntosh Problem in 1953 and 1954 will be stressed the first two days of the three-day meeting of the Massachusetts Fruit Growers Association. Outstanding speakers will handle pest control problems the first day and production problems the second. Small fruit subjects will be covered during the third day, at which time Dr. George M. Darrow, USDA, Beltsville, Md., will discuss strawberry virus disease control. A. P. French of Amherst is secretary of the 409-member association.

WESTERN WASHINGTON—Jan. 6-8, at Puyallup.

"What's New in Horticulture," is the intriguing theme of the 43rd annual meeting of the Western Washington Horticultural Association, to be held in the Fruitland Grange Hall. Featured speaker will be Dr. C. C. French, president, State College of Washington. The program will devote one day to vegetable crops, one day to small fruits, one-half day to ornamentals, and one-half day to such general topics as fertilizers, weed control chemicals, irrigation, and frost control. While membership totals 250, over 800 people

(Continued on page 22)

An index of articles which appeared in AMERICAN FRUIT GROWER in 1952 is available. Simply send a post card request for your copy to AMERICAN FRUIT GROWER, Willoughby, Ohio. A binder for your 1952 copies will be sent upon receipt of your request and a dollar bill.

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Moldboard plowing, just as satisfactory as bigger, heavier tractors. Low cost, too.

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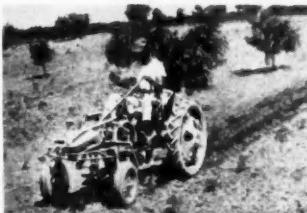
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The key lies in rear-engine, high-arch, open-front design. It gives you far more freedom to apply power in many new ways.

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Want to explore some cost-cutting opportunities in your program? See your Allis-Chalmers dealer.

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TRACTOR DIVISION • MILWAUKEE 1, U. S. A.



Truck gardening between the rows while the new orchard grows up. A natural combination for the Model G.

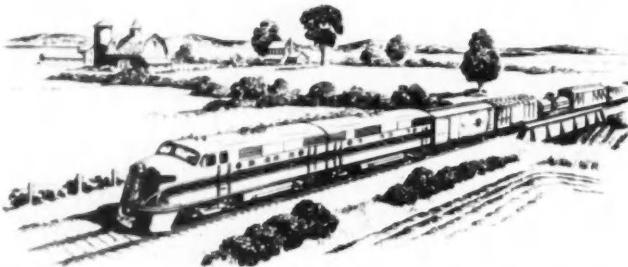


With a special home-mounted compressed air pruning attachment, this usually tedious operation proceeds at a fast clip.

A Tale of Two Roads



This is the road that runs past your farm. It is your link with neighbors and nearby towns. You probably use it every day. And remember, no matter who uses it, *your taxes* pay for building and maintaining it.



This is the road that connects your farm with every other part of the nation. On this road of rails, your crops go to markets near and far. On these rails move the equipment and supplies you use. And, of course, the railroads pay for building and maintaining these steel highways, as well as paying local and state taxes on them.

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For the more freight the railroads carry, the less wear and tear there will be on your public highways—and the less you, as a taxpayer, will have to pay for building and maintaining these highways.

ASSOCIATION OF AMERICAN RAILROADS

WASHINGTON 6, D. C.



You'll enjoy THE RAILROAD HOUR every Monday evening on NBC.

CONVENTION TIME

(Continued from page 21)

attended the 1952 meeting, reports Secretary C. D. Schwartze of Puyallup.

KENTUCKY—Jan. 8-9, at Louisville.

First day of the two-day program: Discussions on strawberry production featuring bringing Kentucky berry acreage back to normal, chemical treatment of soil to kill grubworms, cutworms, aphids, wireworms; advantages of cold storage plants; blossom dusting for weevil and catfacing; processing trend.

Second day: Apple and peach production and marketing; modern "customer picking" of tree-ripe peaches; blossom thinning of peaches and apples with

The Columbia & Okanogan Nursery Company, Wenatchee, Wash., who have just introduced the Royal Red Delicious, a bud sport of the Red Delicious, is located at Wenatchee, Wash., rather than at Yakima, as given on page 27 of the November issue.

chemical spraying; 1953 spray program; growing hardy northern pecan varieties; dwarf apple trees and their advantages.

The meeting will be held in the YMCA Building, reports Secretary W. W. ("Tubby") Magill of Lexington.

COLORADO—Jan. 9-10, at Grand Junction.

During the two-day Western Colorado Horticultural Society Convention "Orchard Cold Storage," one of the featured subjects, will be presented by Archie Van Doren, superintendent, Tree Fruit Experiment Station, Wenatchee, Wash. Soils and Marketing Problems are additional topics which will be presented by topnotch speakers. A series of small discussion groups is being arranged to handle innumerable topics pertaining to both fruits and vegetables. The aim of Secretary Don Marcue of Grand Junction is to boost present membership of 600 to 750 during 1953.

MAINE—Jan. 13-14, at Lewiston.

The 80th meeting of the Maine State Pomological Society will be held during the Annual Trades Show at Lewiston. One of the highlights of the show will be the selection of Maine's 1953 apple queen by the Maine Apple Committee. The handling of apples from orchard through storage will be discussed by an authority from the Marketing & Facilities Research Branch of PMA. Chemical thinning and orchard soils and fertilizers also will receive attention, reports Secretary F. J. McDonald of Monmouth. Membership in the society totals 238.

INDIANA—Jan. 14-16, at Indianapolis.

The Murat Temple will again be the setting for the annual meeting, the 92nd, of the Indiana Horticultural Society, membership in which totals more than 700. Secretary R. L. Klackle of Lafayette plans to include in the program a review of and the remedies for the problems of apple and peach growers. Highlights of the Indiana Fruit Tree Survey also will be presented. Question box periods will help round out the program. Thirty exhibits will enable growers to get first-hand information on commercial products.

NEW YORK—Jan. 14-16, at Rochester, Jan. 21-23, at Kingston.

With a membership totaling 1,200, the New York society can lay claim to being

AMERICAN FRUIT GROWER

the largest in the country. Secretary D. M. ("Dan") Dalrymple of Lockport reports that Marketing again will be stressed during both the Rochester and Kingston meetings but that more emphasis will be placed on fruit varieties, dwarf stocks, and cultural practices, including chemical thinning. Dr. L. P. Batjer, USDA, Wenatchee, Wash., will be a headline speaker at the Kingston meeting. The trade shows are an important feature of the meetings.

VIRGINIA—Jan. 19-21, at Roanoke.

"Volume Production of Quality Apples" is the theme of the annual meeting of the Virginia society which has a membership of 726. Significant titles and speakers include "How Virginia Apple Growers Can Meet Their Competition" by Edwin W. Stillwell, Farm Market Relations, Inc.; "How to Market Apples at a Profit," and "Profitable Apple Production in Spite of Adverse Conditions," by C. G. Garman, Western New York Apple Growers Association; "Regaining Markets for Virginia Apples," by Hon. Parke C. Brinkley, commissioner, Virginia Department of Agriculture; "Chemical Thinning of Apples," by Dr. Art Thompson of Maryland; "Volume Production of Quality Apples," by Dr. L. P. Batjer, USDA, Wenatchee, Wash.; "Peach Pruning and Cultural Practices," by W. W. Magill of Kentucky.

Awards in the Student Speaking Contest will be a part of the banquet program, reports Secretary John F. Watson of Staunton.

PENNSYLVANIA—Jan. 26-28, at York.
John U. Ruet, Secretary, State College.

NEW HAMPSHIRE—Jan. 27-29, at Durham.
D. R. Batchelder, Secretary, Wilton.

OHIO—Feb. 4-6, at Columbus.

The challenging theme, "Growing More Fruit on Fewer Acres with Less Labor," should bring to convention headquarters—the Deshler-Walleck Hotel—the 800 members of Ohio's 100-year-old horticultural society, the country's oldest. The speakers' program is in process of preparation and will be distributed early in January, says Secretary C. W. Ellwood of Wooster. Commercial exhibits will be a part of the show.

VERMONT—Feb. 5, at Barre.

A half day meeting covering small fruits and vegetables will be held in conjunction with Vermont Farm Products Show, reports Secretary C. Lyman Calahan of Burlington.

IDAHO—Feb. 5-6, at Boise.

A good orchestra, a snappy toastmaster, an inspirational banquet speaker, the best in food, and a speaking program which will include vital information on subjects of prime importance to growers always make the annual convention of the Idaho Horticultural Society a gala and important affair which draws far more than the society's 270 members. The theme of the 58th meeting, to be held at Hotel Boise, will be "Quality in Fruit Production."

A headline speaker will be Earle Blodgett, Prosser, Wash., who will discuss fruit virus diseases, reports Secretary Anton ("Tony") S. Horn of Boise.

WEST VIRGINIA—Feb. 5-7, at Martinsburg.

Carroll R. Miller, Secretary, Martinsburg.

The National Peach Council will hold its annual meeting on Feb. 16-18 at Spartanburg, S. C. Secretary of the council is M. J. Dorsey, 1502 S. Lincoln, Urbana, Ill.



**A GREAT COMBINATION
says BILL BUCKMAN
of SODUS FRUIT FARMS**



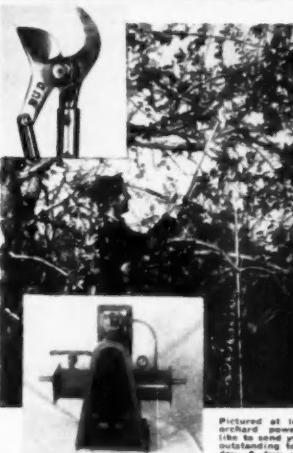
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Pictured at left is the BUD designed orchard power take-off. We would like to send you full details on this outstanding tool. Write or wire us today. A few selected dealer territories still available.

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- Special steel hook practically eliminates bending, breaking, and twisting when abused.
- All-steel heat-treated head.
- Heat-treated alloy steel blade cuts easily — holds cutting edge.
- Spring located so it can't catch or interfere when cutting.
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DuraCut

(Anvil Type)

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Porter DuraCut and DuraShear pruners are ideal for work on shrubs, vines, bushes, etc. Cushion comfort grips never slip or blister hands — never crack or peel — last for years. Positive thumb lock never pinches hands. Cutting blades of heat-treated alloy steel. DuraShear (shear type) has two sharp cutting blades that won't crush or strip bark. DuraCut (anvil type) has thick cutting blade that can't pass the anvil on diagonal cuts.

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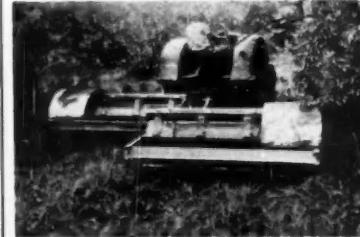


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The new Sawette power chain saw weighs only 26 pounds and will cut trees and limbs up to six inches in diameter. This new unit is easy to use—trees can be cut off at ground level while the grower stands erect. For full information, we suggest you write Hoffco, Inc., Richmond, Ind.



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AMERICAN FRUIT GROWER

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The new Caterpillar booklet, entitled, "Power Farming," is full of worthwhile information for the fruit grower. It answers questions on how tractor-fuel bills can be cut from 60 to 80 per cent, how field

time can be cut in half, how best to work on hills, etc. If you want a copy of this splendid booklet free of charge, just write Caterpillar Tractor Co., Dept. R-39, Peoria, Ill.

DECEMBER, 1952

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CARVER PUMPS

Advertisement

From where I sit ... by Joe Marsh



Our Town Wouldn't Take a "Back Seat"

Well, the "battle of the buses" has been settled! Our town is again friendly with Balesville.

It started when buses began going through our town with a sign on them saying SHOP IN BALESVILLE. The bus line is owned in Balesville and operates over here in our town on a franchise.

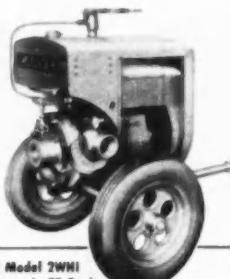
Windy Taylor was all for putting up barricades—he kept calling up the police and the bus company. Finally Judge Cunningham invited the Balesville Chamber of Commerce to meet with ours at Andy's Garden Tavern. Over a

good meal and glass of beer we all soon reached a compromise. Those signs now read SHOP HERE IN TOWN. Everyone's happy.

From where I sit, it shows how problems disappear once both sides get together and try to work things out. Naturally we're all a little different. Some like soda pop, for instance, and some like beer. So what? We all have to ride along through life together. Why not make it a pleasant trip?

Joe Marsh

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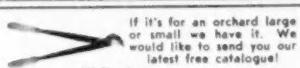
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AMERICAN FRUIT GROWER

The Orchard Home

HERE are a multitude of fruit and nut candies and cookies which you can take pride in preparing and which will make attractive Christmas gifts. Recipes for several which we think are extra special appear on this page. Be sure, though, to stock the family candy jar and cookie jar, not only to take care of those insatiable appetites packaged in ruddy cheeks and stubby noses but also to serve to the folks who stop in for a cheery hello during the festive season.

BUTTER-NUT DROPS

1 cup flour
 $\frac{1}{2}$ cup butter
 $\frac{1}{4}$ cup sugar
 1 egg, separated
 $\frac{1}{4}$ teaspoon salt
 1 tablespoon water
 1 teaspoon grated orange rind
 $\frac{1}{2}$ teaspoon grated lemon rind
 $\frac{1}{2}$ cup ground nut meats

Sift flour and measure. Cream butter and sugar. Add egg yolk. Stir in flour, salt, water, orange, and lemon rind. Mix thoroughly and place in covered bowl. Chill. Roll into tiny balls, $\frac{1}{2}$ teaspoon of dough per ball. Dip balls into slightly beaten egg white. Roll in finely chopped nut meats. Place on greased cookie sheet an inch apart. Bake at 325° F. for 25 minutes. Makes about 3½ dozen cookies.

NUT DATE ROLL

2 cups sugar
 1 cup light cream
 $\frac{1}{2}$ teaspoon salt
 1 pound chopped dates
 1 cup chopped nut meats
 $\frac{1}{2}$ cup shredded coconut
 $\frac{1}{2}$ teaspoon vanilla

Combine sugar, cream, and salt. Cook until mixture reaches soft ball stage, or 238° F. on a candy thermometer. Add chopped dates. Cook until mixture separates from pan when stirred. (Takes about 2 minutes.) Add chopped nut meats, coconut, and vanilla. Beat until cool. Pour onto a wet cloth and form into a roll. Cool. Cut into slices. Makes 60 slices, 1½ inches in diameter.

CANDIED GRAPEFRUIT OR ORANGE PEEL

Select firm grapefruit or oranges. Scrub and remove peel in 4 lengthwise sections.

Cover with cold water; boil 12 minutes. Drain. Repeat 3 times, cooking the third time until peel is tender. Drain. Remove softened inside white membrane from peel by scraping with spoon. Cut peel into thin strips with scissors. Measure peel. For each cup peel allow 1 cup water, $\frac{1}{2}$ cup sugar, and $\frac{1}{2}$ cup karo. Combine water, sugar, and karo and bring to boil, stirring constantly. Boil to 238° F. (or when a little dropped into cold water forms soft ball). Add peel to syrup and cook until syrup is almost all absorbed (about 30 to 40 minutes), stirring occasionally to prevent scorching. Drain in coarse strainer. If desired, tie strips of peel into knots. Spread peel out on waxed paper until dry, about 2 hours. Roll in granulated sugar. Store in tightly covered container.

FRUIT STICKS

$\frac{1}{2}$ cup shortening
 1 cup sugar
 1 egg
 $\frac{1}{4}$ cup molasses
 $\frac{1}{4}$ cup water
 3 cups enriched flour
 $\frac{1}{2}$ teaspoon soda
 $\frac{1}{2}$ teaspoon salt
 $\frac{1}{4}$ teaspoon cinnamon
 $\frac{1}{4}$ teaspoon nutmeg
 $\frac{3}{4}$ cups raisins
 1 package semi-sweet chocolate bits
 $\frac{1}{4}$ cup chopped nut meats

Cream together sugar and shortening. Add egg and beat until light and fluffy. Add molasses and water alternately with the dry ingredients. Soak raisins in boiling water for a few minutes, then drain. Add raisins, chocolate bits, and nuts. Grease a cookie sheet and spread batter on with a spatula. Brush with top milk. Bake in a 350° F. oven for 30 to 35 minutes. Cool and cut into bars. Yields about 4½ dozen bars.



Send order and cash for patterns to Pattern Department, American Fruit Grower, Willoughby, Ohio. Be sure to specify size. Print name and address clearly.

DECEMBER, 1952



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THE VERSATILE HOLIDAY DRESS

The holiday season abounds with parties and visits and visitors, and for each of them you'd like a new dress—or one "miracle" dress that looks new each time you wear it. The "miracle" dress pictured here is a slim line dress with a cummerbund, that changes its face when you wear an overskirt. Make the dress in crepe or one of the new lovely soft wools. Use the same color and fabric for the bodice and the overskirt. Make the slim skirt in another fabric or a co-ordinate matching fabric, and the cummerbund in a third color. For an extra special occasion, make another overskirt in felt. Size 16 requires 5½ yards of 39-inch material for the bodice and overskirt, 2 yards of 39-inch material for the dress skirt, 7½ yards of 39-inch fabric for the cummerbund. Advance Pattern 6192. Sizes 12 to 20. Price 50c.

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American Fruit Grower

RICHARD T. MEISTER, Editor
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• Fruit for Health •

The Importance of Fresh Fruit

WHEN Paul Armstrong, general manager of "Sunkist," gave his now historic talk before the United Fresh Fruit & Vegetable Association in Cleveland last January, he pointed his finger at a market outlet for fruits that has been allowed to slip too far, namely, fresh fruit. It may be argued that since approximately half of all the fruits grown in America are processed in one way or another, and since the per capita consumption of fruit has increased during the last 40 years, it makes little difference whether it is fresh fruit or processed fruit which Mr. and Mrs. America eat.

But this is the age of keen, even fierce competition, and every possible outlet for fruit must be explored and exploited. The increased use of fruit in the fresh form is one of these possibilities.

A visitor to Europe is at once struck by the fresh fruit which he sees in shop windows and in numerous peddler wagons and fruit stands on the streets. There are oranges, apples, pears, peaches, figs, grapes—all fruits in their season—and they sell at what

would seem to Americans as remarkably high prices.

And if he stops for a few days with a friend in Belgium, France, Italy, England, or Scotland he will notice the bowl of fruit on the dining room buffet and the drawing room table. Or, if his host is even more gracious, there will be fruit and flowers in the bedroom as well.

The luncheon and dinner are not complete without fresh fruit. A large silver or china bowl with cold water is the proper place for a rinse and chilling before a choice peach, apple, pear, or bunch of grapes reaches the individual dessert plate. Special fruit forks and knives make the eating something of a ceremony.

All in all it is a pleasant part of European living, which with a little attention from the fresh fruit industry might be found a worthwhile development for America. In the final analysis, however, success depends upon flavor, maturity, and all-around quality, and not so much on eye appeal. And here too the idea might be worth imitating.

Interesting the Younger People

A VARIATION of the idea of chain letters was started by a North Carolina 4-H club to interest members in berry production. Local sponsors in the county gave from 300 to 500 plants of the Massey strawberry free to interested members. Each participant agreed to give plants the following year to another 4-H member who in turn agreed to perpetuate the chain.

With the able backing of North Carolina's extension horticulturist, H. R. Niswonger, the chain is spreading into other counties. Seventy members from 18 counties are now participating, and a quick check shows that six counties have already distributed 25,000 plants.

An idea like this catches the imagination and is an excellent project for the younger generation. According to the U.S. Census there are fewer young people in fruit growing than in any other branch of agriculture. Programs like the North Carolina

strawberry chain could start a lot of young people thinking seriously of fruit growing as a livelihood, which could not help but be a benefit to the fruit industry.

Fruit Growing is Such Fun!



Fruit Talk

Abbondanza (Abundance) is the late-keeping red apple of the great fruit development around Ferrara in the lower Po Valley of northern Italy, worthy of full trial in other parts of the world.

The **Swiss** are far ahead in the extensive development of a choice **bottled apple cider** which commands ready consumer acceptance on a large scale.

There is nothing new under the sun. The "wheel of nutrition" originated in Michigan by Dr. A. L. Kenworthy to show the nutritional status of fruit trees (excesses, deficiencies, and optimum amounts), based on spectrographic analyses of foliage, has its counterpart in a similar method employing rapid chemical tests developed and used successfully by Dr. T. Wallace, director Long Ashton Research Station in west England a number of years ago.

Scotland produces high yields of choice strawberries and red raspberries which are finding their way, frozen, to American markets.

According to **George M. Darrow** of the USDA, scientific plant breeding has accounted for varieties which now produce 55 per cent of the commercial strawberry crop, 75 per cent of the red raspberry crop, and 90 per cent of the blueberry crop.

A thoughtful gift from **Dr. Swarbrick**, director of the new **Scottish Research Station** at Dundee, and **Mrs. Swarbrick**, commemorating a most pleasant visit to their home at Taybank, is John Gerard's "*Herball or general historie of plants*," published in 1597. Under a discussion of the apple comes this choice phrasing, "... but forward in the name of God, graffe, set, plant and nourish up trees in every corner of your ground, the labour is small, the cost is nothing, the commodity is great, yourselves shall have plenty, the poor shall have somewhat in time of want to relieve their necessities, and God shall reward your good mindes and diligence."

English fruit growers resent the **export payments** made to American fruit exporters that help put American fruit on English markets. **Italian** fruit growers resent the **austerity program** in England (for which they blame Churchill) which drastically reduces fruit imports, and **American** fruit growers resent **Canadian** imports and the difficulties of exports to Europe. To put it mildly, "it's a mess."

And **Chianti wine** taken on an empty stomach to assuage thirst where there is no safe water, is guaranteed to make all the girls in the train the most attractive creatures in the world and the country between Milan and Verona marvelously beautiful!

—H.B.T.

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AMERICAN FRUIT GROWER



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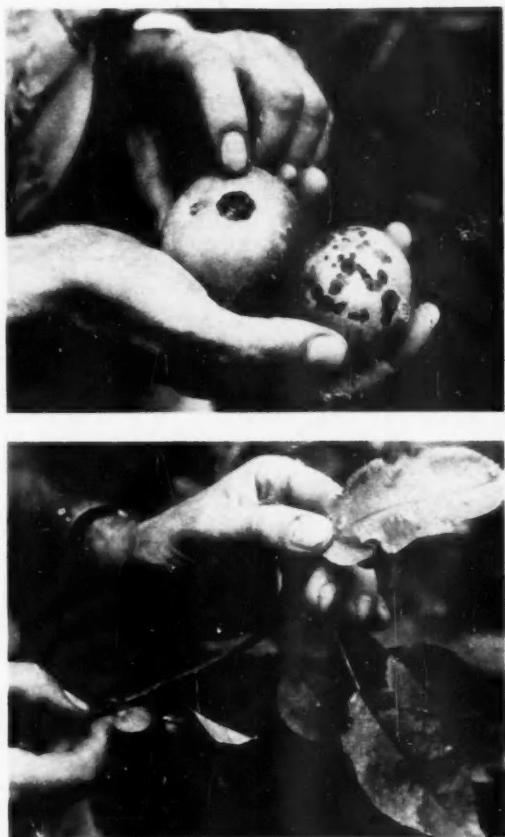
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